CONTENTS

NUMBER 1

Tracy A. Baker, S. Suzanne Nielsen, Richard E. Shade and B. B. Singh	1	Physical and chemical attributes of cowpea lines resistant and susceptible to *Callosobruchus maculatus* (F.) (Coleoptera: Bruchidae)
C. P. Haines	9	Observations on *Callosobruchus analis* (F.) in Indonesia, including a key to storage *Callosobruchus* spp (Col., Bruchidae)
J. E. Baker and W. R. Halliday	17	Gene system coding α-amylases in *Sitophilus zeamais* (Motsch.) (Coleoptera: Curculionidae)
Suhaila A. Younis, Zuhair S. AL-Hakkak, Faiza I. AL-Rawi and Edward G. Hagop	25	Physiological and cytogenetic effects of phosphine gas in *Allium cepa* (L.)
P. R. Samson and R. J. Parker	31	Relative potency of grain protectants on maize, paddy rice, and wheat
P. R. Samson, R. J. Parker and A. L. Jones	39	Laboratory studies on protectants for control of *Sitophilus oryzae* (Coleoptera: Curculionidae) and *Rhyzopertha dominica* (Coleoptera: Bostrichidae) in paddy rice
P. R. Samson and R. J. Parker	49	Laboratory studies on protectants for control of Coleoptera in maize
A. S. Agbaji and E. B. Agbaji	57	Moisture sorption isotherms of some Nigerian hides, skins and leather
Announcements	59	

NUMBER 2

M. Hluchý and A. Samšiňáková	61	Comparative study on the susceptibility of adult *Sitophilus granarius* (L.) (Coleoptera: Curculionidae) and larval *Galleria mellonella* (L.) (Lepidoptera: Pyralidae) to the entomogenous fungus *Beauveria bassiana* (Bals.) Vuill.
G. N. J. le Patourel, M. Shawir and F. I. Moustafa	65	Accumulation of mineral dusts from wheat by *Sitophilus oryzae* (L.) (Coleoptera: Curculionidae)
T. A. Jacob and D. A. Fleming	73	The difference in the developmental period and mortality of some field strains of *Oryzaephilus surinamensis* (L.) at constant temperatures (Coleoptera: Silvanidae)
Michael C. Thomas and Michael L. Zimmerman	77	A new species of stored products *Cryptolestes* from Thailand (Coleoptera: Cucujidae: Laemophloeinae)
Kio N. Don-Pedro	81	Insecticidal activity of some vegetable oils against *Dermestes maculatus* Degeer (Coleoptera: Dermestidae) on dried fish
Harish Chander and S. M. Ahmed	87	Comparative evaluation of fungicidal quinones and natural embelin against some insect pests of storage

B. C. Longstaff and N. T. Starick	93	The influence of media on the survival of pupae of *Rhyzopertha dominica* (Coleoptera: Bostrichidae) after sexing
K. Ahmed, F. Khalique, M. Afzal, M. Tahir and B. A. Malik	97	Variability in chickpea (*Cicer arietinum* L.) genotypes for resistance to *Callosobruchus maculatus* F. (Bruchidae)
T. I. Ofuya and S. O. Agele	101	An examination of the patrol phase of oviposition behaviour of *Callosobruchus maculatus* (Fabricius) (Coleoptera: Bruchidae)
N. D. G. White and D. S. Jayas	105	Safe storage conditions and infestation potential of canola meal by fungi and insects
James E. Throne	115	A fungal parasite (Ascomycetes: Laboulbeniales) of *Cryptolestes ferrugineus* (Stephens) (Coleoptera: Cucujidae)

NUMBER 3

Robert R. Cogburn, H. H. Hung and B. D. Webb	117	Survival and development of *Sitotroga cerealella* (Oliv.) on seeds from species of *Oryza* other than *Oryza sativa* L.
Peter F. Credland and Andrew W. Wright	125	Factors affecting female fecundity in the cowpea seed beetle, *Callosobruchus maculatus* (Coleoptera: Bruchidae)
S. K. Hobbs and E. J. Bond	137	Response of *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae) to sublethal treatments with phosphine
P. F. Prevett, F. P. Benton, D. R. Hall, R. J. Hodges and R. dos Santos Serodio	147	Suppression of mating in *Ephestia cautella* (Walker) (Lepidoptera: Phycitidae) using microencapsulated formulations of synthetic sex pheromone
S. Phillips, R. Mitfa and A. Wallbridge	155	Rice yellowing during drying delays
H. Smet, M. Rans and A. de Loof	165	Activity of new juvenile hormone analogues on a stored food insect, *Tribolium confusum* (J. du Val) (Coleoptera: Tenebrionidae)
Z. S. AL-Hakkak, M. J. Al-Azzawi, B. W. Al-Adhamy and S. A. Khalil	171	Inhibitory action of phosphine on acetylcholinesterase of *Ephestia cautella* (Lepidoptera: Pyralidae)
G. Jilani, R. C. Saxena and A. A. Khan	175	Ethylene production as an indicator of germination and vigor loss in stored rice seed infested by *Rhyzopertha dominica* (F.) (Coleoptera: Bostrychidae)
Corrigendum	179	

NUMBER 4

George N. Mbata	181	Studies on some aspects of the biology of *Corcyra cephalonica* (Stainton) (Lepidoptera: Galleriidae)
Julie Dendy, Philip Dobie, J. Saidi and Christine Sherman	187	The design of traps for monitoring the presence of *Prostephanus truncatus* (Horn) (Coleoptera: Bostrichidae) in maize fields
P. J. Collins, J. C. Mulder and D. Wilson	193	Variation in life history parameters of *Oryzaephilus surinamensis* (L). (Coleoptera: Silvanidae)
W. H. McGaughey and R. G. Akins	201	Application of modified atmospheres in farm grain storage bins

A. K. M. El-Nahal, G. H. Schmidt and E. M. Risha	211	Vapours of *Acorus calamus* oil—a space treatment for stored-product insects
Kio N. Don-Pedro	217	Mechanisms of action of some vegetable oils against *Sitophilus zeamais* Motsch (Coleoptera: Curculionidae) on wheat
S. Rajendran and M. Muthu	225	The toxic action of phosphine in combination with some alkyl halide fumigants and carbon dioxide against the eggs of *Tribolium castaneum* Herbst (Coleoptera: Tenebrionidae)
W. A. Makanjuola	231	Evaluation of extracts of neem (*Azadirachta indica* A. Juss) for the control of some stored product pests
P. D. Cox, W. E. Parish and M. A. Beirne	239	Variations in the refuge-seeking behaviour of four strains of *Cryptolestes ferrugineus* (Stephens) (Coleoptera: Cucujidae) at different temperatures
P. R. Samson and E. A. Hall	243	Effect of relative humidity on the biological activity of fenitrothion residues on different surfaces